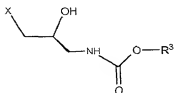


WHAT IS CLAIMED IS:

1. A (S)-secondary alcohol having a general structural formula:



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wherein R³ is C₁-C₁₀ alkyl, and X is halogen, alkylsulfonyl, or arylsulfonyl, or a salt or hydrate thereof.

2. The (S)-secondary alcohol of claim 1 wherein R³ is C₄-C₇ tertiary alkyl.

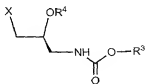
3. The (S)-secondary alcohol of claim 2 wherein R³ is tertiary butyl.

4. The (S)-secondary alcohol of claim 1 wherein X is Cl.

5. The (S)-secondary alcohol of claim 1 having a name tert-butyl (2S)-3-chloro-2-hydroxypropylcarbamate.

6. The (S)-secondary alcohol of claim 1 in crystalline form.

7. An (S)-ester having a general structural formula:



- 5 wherein R³ is C₁-C₁₀ alkyl, R⁴ is C₁-C₅ alkylcarbonyl, and X is halogen, alkylsulfonyl, or arylsulfonyl, or a salt or hydrate thereof.

8. The (S)-ester of claim 7 where R³ is C₄-C₇ tertiary alkyl.

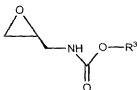
- 10 9. The (S)-ester of claim 8 where R³ is tertiary butyl.

10. The (S)-ester of claim 7 where X is Cl.

11. The (S)-ester of claim 7 having a name (1S)-2-[(tert-
15 butoxycarbonyl)amino]-1-(chloromethyl)ethyl acetate.

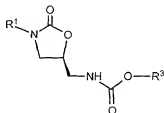
12. The (S)-ester of claim 7 in crystalline form.

13. An (S)-epoxide having a general structural formula:

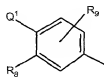


wherein R^3 is C_1 - C_{10} alkyl, or a salt or hydrate thereof, in crystalline form.

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14. The (S)-epoxide of claim 13 wherein R^3 is C_4 - C_7 tertiary alkyl
15. The (S)-epoxide of claim 14 wherein R^3 is tertiary butyl.
16. The (S)-epoxide of claim 13 having a name tert-butyl (2S)-oxiranylmethylcarbamate.
- 10
17. An (S)-intermediate having a general structural formula:



- 15
- wherein R^1 is an aryl group, optionally substituted, and R^3 is C_1 - C_{10} alkyl, or a salt or hydrate thereof.
18. The (S)-intermediate of claim 17 wherein R^1 is:



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wherein Q^1 is: $R^{10}R^{11}N$,